## Chem-Impex International, Inc.

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## Certificate of Analysis

Catalogue Number 05120

**Lot Number** 000129-190828

Product  $N^{\alpha,\beta}$ -Bis-Fmoc-D-2,3-diaminopropionic acid

Fmoc-D-Dap(Fmoc)-OH

CAS Number 1217631-22-5 Molecular Formula C<sub>33</sub>H<sub>28</sub>N<sub>2</sub>O<sub>6</sub>

Molecular Weight 548.58

**Appearance** Off-white crystalline powder

**Optical Rotation** [a] $D^{20} = 14$  ° (C=1 in DMF)

**Residual Solvents** Ethyl acetate, Methyl tert-butyl ether

**Assay by titration** 95.4%

Chiral HPLC 99.9% (ee)

L-Enantiomer 0.1%
Purity by HPLC 99.4%
Purity by TLC > 99%

**Storage** Store at 0 - 8 °C

**Remarks** See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

**Bala Kumar** 

**Quality Control Manager**